

WHAT IS CLAIMED IS:

- 1           1. A system for associating historical information  
2 with corresponding sensory data received from a recording  
3 device and for performing functional operations on the  
4 sensory data, the sensory data including a plurality of  
5 sensory data elements, said system comprising:  
6           a memory for storing the sensory data and  
7 associated historical information;  
8           a display for viewing the sensory data stored in  
9 the memory;  
10           a computing device coupled to said memory and  
11 said display, said computing device operable to generate  
12 a plurality of historical data elements corresponding to  
13 the historical information, at least one historical data  
14 element being uniquely associated with a corresponding  
15 sensory data element; and  
16           an input device coupled to said computing device  
17 for selecting a functional operation to be applied to at  
18 least one sensory data element, said computing device

19 forming at least one historical data element and  
20 corresponding historical information.

21 2. The system according to claim 1, wherein the  
22 sensory data includes at least one of the following:  
23 visual, auditory, aural, pressure, and  
24 temperature.

1 3. The system according to claim 1, wherein the  
2 historical information includes data representative of the  
3 functional operations performed on at least one sensory  
4 data element.

1 4. The system according to claim 1, wherein the  
2 historical data elements are binary values corresponding  
3 to the historical information.

1 5. The system according to claim 1, wherein each of  
2 the at least one historical data element is concatenated  
3 with the uniquely associated sensory data element.

09905406-071301

1           6.    The system according to claim 1, wherein the  
2    sensory data remains unmodified.

1           7.    The system according to claim 1, wherein said  
2    computing device renders the sensory data according to the  
3    historical data elements and corresponding historical  
4    information.

09905406-071301

09905406.071301

1           8.   A system for preserving historical operations  
2   associated with sensory data, the system comprising:  
3               a memory for storing the sensory data and  
4   historical information representative of the historical  
5   operations;  
6               a processor, coupled to said memory, operable to  
7   generate the historical information based upon the  
8   historical operations being performed, said processor  
9   further generating historical data elements associated  
10   with the historical information, and corresponding the  
11   historical data elements to the sensory data; and  
12              a storage medium coupled to said processor for  
13   storing the sensory data, historical information, and  
14   historical data elements.

1           9.   The system according to claim 8, wherein the  
2   sensory data includes a plurality of sensory data elements  
3   having at least one historical data element corresponding  
4   therewith.

1           10. The system according to claim 9, wherein the at  
2           least one historical data element is appended to a  
3           corresponding sensory data element.

1           11. The system according to claim 8, further  
2           comprising a data port, coupled to said processor,  
3           operable to communicate the sensory data.

1           12. The system according to claim 8, further  
2           comprising a display, coupled to said processor, for  
3           displaying at least a portion of the sensory data as  
4           affected by the historical operations.

1           13. The system according to claim 8, wherein the  
2           sensory data and historical data elements are stored in a  
3           datafile.

09905406 "071301  
T03T70" 90450660

1           14. A method for maintaining functional operations  
2     applied to sensory data, the method comprising:  
3           forming a plurality of first and second data  
4     fields having one-to-one correspondence, a first data  
5     field including a sensory data element, and a second data  
6     field including an historical data element corresponding  
7     to at least one functional operation performed on the  
8     sensory data element; and  
9           storing the plurality of first and second data  
10    fields.

1           15. The method according to claim 14, wherein the  
2     first and second data fields are concatenated.

1           16. The method according to claim 14, further  
2     comprising generating indicia representative of the at  
3     least one functional operation.

1           17. The method according to claim 16, further  
2     comprising generating an end-of-operation identifier after  
3     said generating indicia.

1           18. The method according to claim 14, wherein the  
2     sensory data is unaltered by the at least one functional  
3     operation.

1           19. The method according to claim 14, wherein the  
2     historical data element is indicative of applicability of  
3     the corresponding at least one functional operation to the  
4     corresponding sensory data element.

1           20. A system for generating sensory data and  
2   historical information, the system comprising:  
3               means for recording sensory information;  
4               means for converting the sensory information into  
5   sensory data;  
6               at least one measuring device, associated with  
7   said means for recording, for measuring input parameters  
8   while recording the sensory information;  
9               a processing unit coupled to said at least one  
10   measuring device, said processing unit generating  
11   historical information and associated historical data  
12   elements based on the measured input parameters, said  
13   processing unit further corresponding the historical data  
14   elements with the sensory data, the historical data  
15   elements being indicative of applicability of the  
16   associated historical information to the corresponding  
17   sensory data;  
18               memory coupled to said processing unit, for  
19   storing the sensory data and historical data elements; and



20           a communication port, coupled to said processing  
21   unit, for communicating the sensory data and historical  
22   data elements.

1           21. The system according to claim 20, wherein the  
2   sensory data includes a plurality of sensory data  
3   elements, at least one sensory data element having at  
4   least one historical data element concatenated thereto.

1           22. The system according to claim 21, wherein the at  
2   least one historical data element is a binary value  
3   indicative of applicability of the generated historical  
4   information to at least one sensory data element.

1           23. The system according to claim 22, wherein the  
2   sensory information is at least one of the following:  
3           visual,       auditory,       aural,       pressure,       and  
4   temperature.

1           24. The system according to claim 20, wherein the  
2     historical information includes functional operations  
3     performed on the sensory data.

1           25. The system according to claim 20, wherein the  
2     sensory data, historical information, and historical data  
3     elements are stored in a single datafile.

09905406-071301

1           26. A system for performing functional operations on  
2     sensory data and maintaining the functional operations  
3     applied to the sensory data as historical information, the  
4     system comprising:

5                 a processor;

6                 software, operating on said processor, for  
7     performing the functional operations on at least one  
8     sensory data element, said processor generating historical  
9     information representative of the functional operations,  
10    and at least one historical data element associated with  
11    the historical information, the at least one historical  
12    data element further being associated with the at least  
13    one sensory data element; and

14                a display coupled to said processor, for  
15    displaying a rendered image of the sensory data as  
16    modified by the functional operations.

1           27. The system according to claim 26, wherein the at  
2     least one historical data element is concatenated to the  
3     at least one sensory data element.

4           28. The system according to claim 26, wherein the  
5    sensory data is unmodified.

0905406-071301

09505406 "071301  
1 29. A computer-readable medium having stored thereon  
2 sequences of instructions, the sequences of instructions,  
3 when executed by a processor, causes the processor to:  
4 perform a functional operation on at least one  
5 sensory data element;  
6 generate at least one historical information data  
7 element representative of the functional operation;  
8 generate an historical data element associated  
9 with the at least one historical information data element;  
10 and  
11 concatenate the historical data element with the  
12 at least one sensory data element.

1 30. The computer-readable medium according to claim  
2 29, wherein the sequences of instructions further cause  
3 the processor to render the at least one sensory data  
4 element as altered by the functional operation.

1           31. A system for distributing a sensory datafile  
2     having historical information associated therewith, the  
3     system comprising:

4                 a network for communicating information between  
5     at least two points coupled to said network; and

6                 a server, located at a first point, operable to  
7     communicate a datafile including sensory data and  
8     historical data elements, at least one historical data  
9     element being concatenated to a sensory data element and  
10    indicative of at least one functional operation performed  
11    on the sensory data element.

1           32. The system according to claim 31, wherein the  
2     datafile further includes historical information  
3     representative of the functional operations.

09905406 "071301

1           36. The system according to claim 31, wherein said  
2   network includes one of a local area network, wide area  
3   network, wireless network, and the Internet.

1           37. A method for generating a sensory datafile being  
2   capable of maintaining a plurality of functional  
3   operations applied to sensory data, said method  
4   comprising:  
5               receiving the sensory data;  
6               generating historical information representative  
7   of a functional operation applied to at least one sensory  
8   data element; and  
9               appending at least one historical data element  
10   to the at least one sensory data element, the at least one  
11   historical data element identifying applicability of the  
12   historical information to the associated at least one  
13   sensory data element.

1           38. The method according to claim 37, wherein each  
2   of the sensory data elements is appended by at least one  
3   historical data element.



1           39. A system, comprising:  
2           a computing device operable to receive a datafile  
3 including sensory data and associated historical  
4 information, the historical information being  
5 representative of functional operations applied to at  
6 least one sensory data element.

1           40. The system according to claim 39, wherein the  
2 sensory data includes a plurality of sensory data  
3 elements, each sensory data element having at least one  
4 historical data element appended thereto, and indicative  
5 of at least one historical information data element being  
6 applied to the associated sensory data element.

1           41. The system according to claim 39, wherein said  
2 computing device is further operable to render the sensory  
3 data as affected by the historical information.

1           42. The system according to claim 39, wherein said  
2   computing device further is operable to undo historical  
3   information applied to the sensory data.

FOET/0" 90450660